

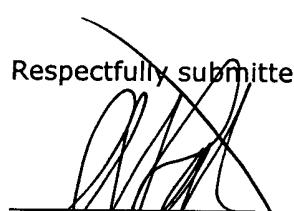
Amendment to the Abstract:

The Abstract has been amended. A revised Abstract is attached.

ABSTRACT

The present invention provides an oscillator or PLL circuit which can balance the characteristics of a circuit without being affected by noise from a signal line or a supply line. ~~The present invention provides There is provided~~ an oscillator comprising a resonance circuit having a first series connected circuit having coils and a power terminal, a second series connected circuit having capacitors and a varactor having directional characteristics, and a third series connected circuit having capacitors and a varactor having directional characteristics. The first, second, and third series connected circuits are connected in parallel. The varactors are connected so as to have opposite directionalities with respect to a connection side of the second and third series connected circuit. The capacities of the varactors are varied by external control. The varied capacities determine an oscillation frequency.

Respectfully submitted,


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AR/fp

Attachment: Abstract

Dated: July 15, 2003

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KATHLEEN LIBBY

ABSTRACT

The present invention provides an oscillator or PLL circuit which can balance the characteristics of a circuit without being affected by noise from a signal line or a supply line. There is provided an oscillator comprising a resonance circuit having a first series connected circuit having coils and a power terminal, a second series connected circuit having capacitors and a varactor having directional characteristics, and a third series connected circuit having capacitors and a varactor having directional characteristics. The first, second, and third series connected circuits are connected in parallel. The varactors are connected so as to have opposite directionalities with respect to a connection side of the second and third series connected circuit. The capacities of the varactors are varied by external control. The varied capacities determine an oscillation frequency.